

**GUIDANCE DOCUMENT**

SEC III—IL—TECHNICAL GUIDE  
Guidance Documents—Cropland

**Identified problems:** Sheet and rill erosion is 9 tons/acre. Ephemeral gullies on C and D slopes are present on some fields. Gully erosion is occurring at creek bank and cutting back into crop field. Landowner cites compaction problems are evident, sheet and rill evidence at the foot of some slopes due to areas of soil deposition. Salt damage is noted in various areas where oil production has occurred. Expected yields are higher than actual.

**Resource Setting**

CRA-E-MLRA-120  
**Soils:** 214D2 Hosmer  
**Land use:** Cropland, corn-soybeans-wheat-clover  
**Applied practices:** Grass Waterway  
**Tillage operations:** Chisel/disc, 10% Residue

RESOURCE CONCERNS	SOIL				WATER							
	Erosion		Condition		Deposition		Quantity					
	Sheet & Rill	Ephemeral Gully	Classic Gully	Compaction	Excess Fertilizer	Onsite	Runoff/Ponding	Poor Soil Drainage	Inadequate Outlets	Quality Ground	Surface	
<b>Alt. #1</b>												
328 Conservation Crop Rotation	Mod+	Sl+	Sl+	Sl+	Sl+	Sl+	0	Sl+	0	Sl+	0	0
329a Residue Management, No Till	Sig+	Sig+	0	Mod+	0	Sig+	Sl+	Sl-	0	Sl-	Sl-	Sl+
342b Critical Area Treatment	Sig+	Sig+	Mod+	Mod+	N/A	Sig+	Sl+	0	0	N/A	Sl+	Mod+
393 Filter Strip	Mod+	Sl+	Sl+	0	N/A	Mod+	N/A	0	0	0	0	Sl+
590 Nutrient Management	0	0	0	0	Sig+	0	0	0	0	Sl+	Sl+	Sl+
606 Subsurface Drains	Sl+	0	Sl+	0	0	Mod+	Sl+	Sig+	0	Mod+	Mod+	Mod-
620 Underground Outlet	0	Sig+	Mod+	N/A	0	Mod+	Mod+	Mod+	Sig+	Mod-	Sl-	Sl+
638 Water & Sediment Control Basin	0	Sig+	Sig+	0	0	Sig+	Mod+	Sl-	Sig+	Sl-	0	0

**GUIDANCE DOCUMENT (continued)**

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RESOURCE CONCERNS	AIR Quality	PLANTS Management			ANIMALS Habitat (Wildlife)
		Harvest	Nutrient Management	Pest Management	
<b>RMS Practices</b>	Airborne Odor	Establishment, Growth & Harvest			Cover & Shelter
<b>Alt. #1</b>	0	Si+	Si+	Si+	Mod+
328 Conservation Crop Rotation	0	Si+	Si-	Si-	Mod+
329a Residue Management, No Till	N/A	Sig+	Mod+	N/A	Si+
342b Critical Area Treatment	N/A	N/A	N/A	Si-	Sig+
393 Filter Strip	0	Mod+	Mod+	Si+	Mod+
590 Nutrient Management	N/A	Mod+	N/A	Sig+	0
606 Subsurface Drains	0	0	N/A	N/A	N/A
620 Underground Outlet	N/A	0	N/A	N/A	0
638 Water & Sediment Control Basin	N/A	0	0	0	0